## **Supplementary Materials**

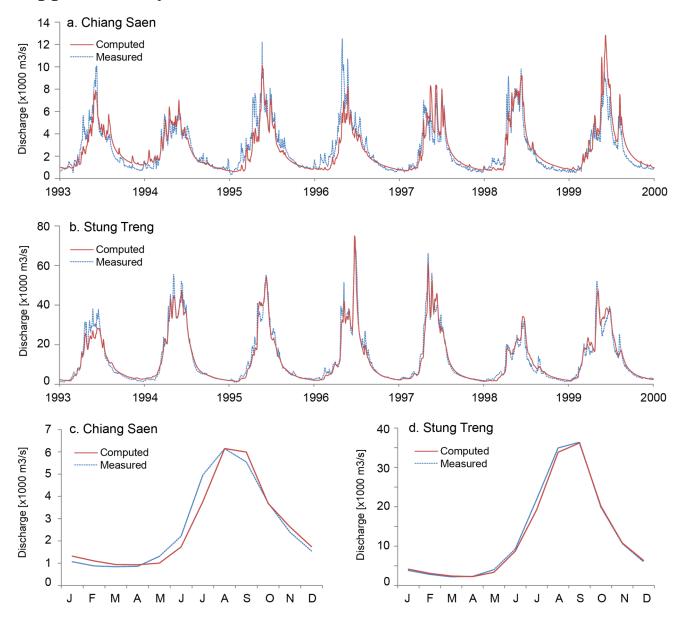
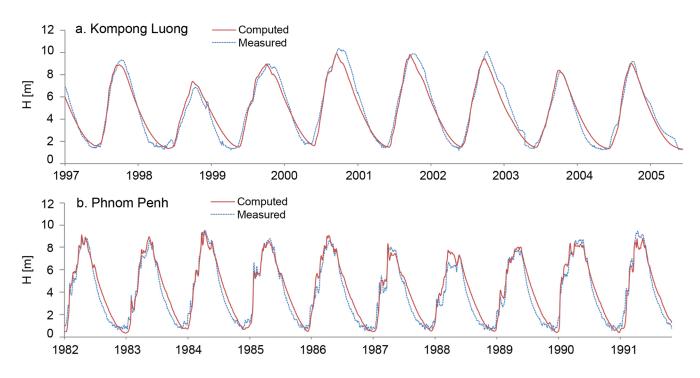
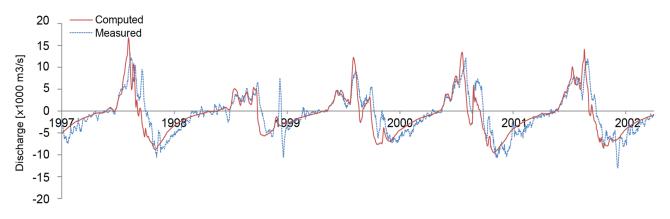


Figure S1. Validation results of the VMod hydrological model with validation period 1993–1999. (a) Daily discharge at Chiang Saen; (b) daily discharge at Stung Treng; (c) monthly average discharge at Chiang Saen; and (d) monthly average discharge at Stung Treng [38].



**Figure S2.** Validation results of the EIA 3D model: measured and computed water levels at Kampong Luong and Phnom Penh, computation with VMod baseline scenario inflow data.



**Figure S3.** Validation results of the EIA 3D model: computed and 3-day averaged measured flow at Prek Dam for years 1997–2002.

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